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CLAIMS

- 1. A green phosphor to form a phosphorus layer of a plasma display panel, wherein the green phosphor is composed of Zn_2SiO_4 :Mn phosphor, (Y, Gd)BO₃:Tb phosphor and BaAll2O19:Mn phosphor, and the mixing rate of BaAll2O19:Mn phosphor to the total weight is 1~25 wt%.
- 2. A green phosphor to form a phosphorus layer of a plasma display panel, wherein the green phosphor is composed of Zn₂SiO₄:Mn phosphor, (Y, Gd)BO₃:Tb phosphor and BaAll2O19:Mn phosphor, and the mixing rate of the (Y, Gd)BO₃:Tb phosphor to the Zn₂SiO₄:Mn phosphor is 25~80 wt%.
- 15 3. The green phosphor according to claim 2, wherein the mixing rate of the BaAl12019:Mn phosphor to the total weight of the green phosphor is 1~25 wt%.
 - 4. A plasma display panel, comprising:
- a plurality of electrodes arranged with having a first and a second sustain electrode form a pair on an upper substrate;

a plurality of data electrodes arranged on a lower substrate to cross the electrodes;

a plurality of barrier ribs arranged in parallel to the

data electrodes with a designated gap to form a discharge space between the upper substrate and the lower substrate; and

a plurality of phosphorus layers having a red phosphorus layer, a green phosphorus layer and a blue phosphorus layer which are formed along the inner wall of the barrier ribs,

and

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wherein the green phosphorus layer is made of $Zn_2SiO_4:Mn$ phosphor, (Y, Gd)BO3:Tb phosphor and BaAl12O19:Mn phosphor, and the mixing rate of BaAl12O19:Mn phosphor to the total weight is $1\sim25$ wt%.

5. A plasma display panel, comprising:

a plurality of electrodes arranged with having a first and a second sustain electrode form a pair on an upper substrate;

a plurality of data electrodes arranged on a lower substrate to cross the electrodes;

a plurality of barrier ribs arranged in parallel to the data electrodes with a designated gap to form a discharge space between the upper substrate and the lower substrate; and

a plurality of phosphorus layers having a red phosphorus layer, a green phosphorus layer and a blue phosphorus layer which are formed along the inner wall of the barrier ribs,

and

wherein the green phosphorus layer is made of Zn_2SiO_4 :Mn

phosphor, $(Y, Gd)BO_3$: Tb phosphor and BaAl12019:Mn phosphor, and the mixing rate of the $(Y, Gd)BO_3$: Tb phosphor to the Zn_2SiO_4 :Mn phosphor is 25~80 wt%.

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- 5 6. The plasma display panel according to claim 5, wherein the mixing rate of the BaAll2019:Mn phosphor to the total weight of the green phosphorus layer is 1~25 wt%.
- 7. A green phosphor to form a phosphorus layer of a plasma display panel, wherein the green phosphor includes a mixed phosphor composed of a first class phosphor of Zn₂SiO₄:Mn, a second class phosphor of at least one of LaPO₄:Tb, Y₃Al₃(BO₃)₄Tb, Y(Al, Ga)5012:Tb, YBO₃:Tb, (Y, Gd)BO₃:Tb, and a third class phosphor of at least one of BaAl12019:Mn, BaAl14023:Mn, Ba(Sr,Ma)AlO:Mn, and the mixing rate of the third class phosphor to the total weight of the mixed phosphor is 1~25 wt%.
- 8. A green phosphor to form a phosphorus layer of a plasma display panel, wherein the green phosphor includes a mixed phosphor composed of a first class phosphor of Zn₂SiO₄:Mn, a second class phosphor of at least one of LaPO₄:Tb, Y₃Al₃(BO₃)₄Tb, Y(Al, Ga)5012:Tb, YBO₃:Tb, (Y, Gd)BO₃:Tb, and a third class phosphor of at least one of BaAl12019:Mn, BaAl14023:Mn, Ba(Sr,Ma)AlO:Mn, and the mixing rate of the second class phosphor

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to the first class phosphor is 25~80 wt%.

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- 9. The green phosphor according to claim 8, wherein the mixing rate of the third class phosphor to the total weight of the mixed phosphor is 1~25 wt%.
- 10. A green phosphor to form a phosphorus layer of a plasma display panel, wherein a BAM group phosphor of at least one of BaAl12019:Mn, BaAl14023:Mn, Ba(Sr,Ma)AlO:Mn is mixed with at least one type of phosphor that has a different composition from the BAM group phosphor, and the mixing rate of the BAM group phosphor to the total weight is 1~25 wt%.
- 11. A green phosphor to form a phosphorus layer of a plasma
 15 display panel, wherein the green phosphor includes a mixed phosphor in which a first class phosphor of Zn₂SiO₄:Mn is mixed with a second class phosphor of at least one of LaPO₄:Tb, Y₃Al₃(BO₃)₄Tb, Y(Al, Ga) 5012:Tb, YBO₃:Tb, (Y, Gd) BO₃:Tb, and the mixing rate of the second phosphor to the first class phosphor is 25~80 wt%.
 - 12. The green phosphor according to claim 11, wherein the mixed phosphor further includes a third class phosphor of at least one of BaAl12019:Mn, BaAl14023:Mn, Ba(Sr,Ma)Al0:Mn.

A plasma display panel, comprising: 13.

a plurality of electrodes arranged with having a first and a second sustain electrode form a pair on an upper substrate;

a plurality of data electrodes arranged on a lower substrate to cross the electrodes;

a plurality of barrier ribs arranged in parallel to the data electrodes with a designated gap to form a discharge space between the upper substrate and the lower substrate; and

a plurality of phosphorus layers having a red phosphorus layer, a green phosphorus layer and a blue phosphorus layer which are formed along the inner wall of the barrier ribs,

and

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wherein the green phosphorus layer is composed of a first class phosphor of Zn₂SiO₄:Mn, a second class phosphor of at least one of LaPO₄:Tb, Y_3Al_3 (BO₃)₄Tb, Y(Al, Ga)5012:Tb, YBO_3 :Tb, (Y, Ga)5012:Tb, (Y, Ga)5Gd) BO3: Tb, and a third class phosphor of at least one of BaAl12019:Mn, BaAl14023:Mn, Ba(Sr, Ma)Al0:Mn, and the mixing rate of the third class phosphor to the total weight is 1~25 20 wt8.

A plasma display panel, comprising: 14.

a plurality of electrodes arranged with having a first and a second sustain electrode form a pair on an upper substrate;

a plurality of data electrodes arranged on a lower substrate to cross the electrodes;

a plurality of barrier ribs arranged in parallel to the data electrodes with a designated gap to form a discharge space between the upper substrate and the lower substrate; and

a plurality of phosphorus layers having a red phosphorus layer, a green phosphorus layer and a blue phosphorus layer which are formed along the inner wall of the barrier ribs,

and

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wherein the green phosphorus layer is composed of a first class phosphor of Zn₂SiO₄:Mn, a second class phosphor of at least one of LaPO₄:Tb, Y₃Al₃(BO₃)₄Tb, Y(Al, Ga)5012:Tb, YBO₃:Tb, (Y, Gd)BO₃:Tb, and a third class phosphor of at least one of BaAl12019:Mn, BaAl14023:Mn, Ba(Sr,Ma)AlO:Mn, and the mixing rate of the second class phosphor to the first class phosphor is 25~80 wt%.

15. The plasma display panel according to claim 14, wherein the mixing rate of the third class phosphor to the total weight of the green phosphorus layer is 1~25 wt%.